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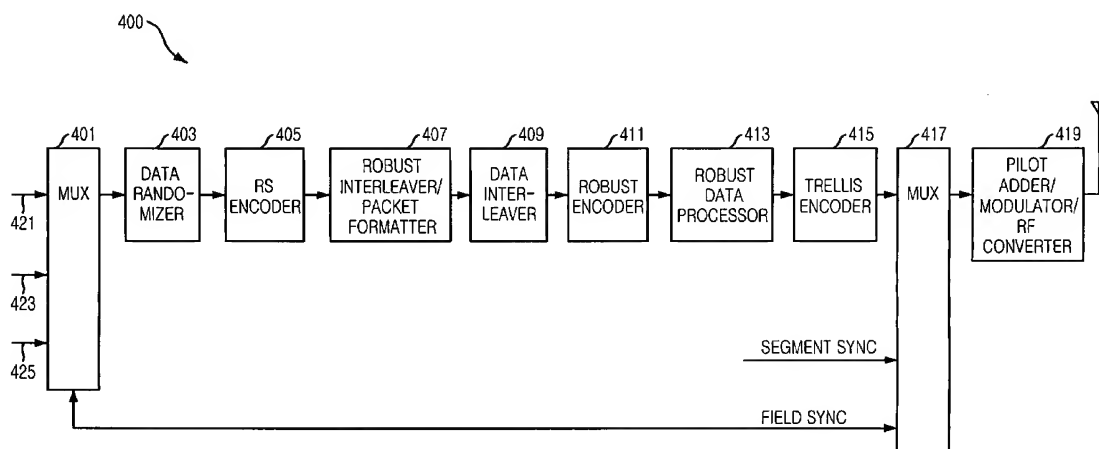
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(54) Title: DIGITAL TELEVISION TRANSMITTER AND RECEIVER FOR USING 16 STATE TRELLIS CODING



(57) Abstract: Provided are a Vestigial Side Band (VSB) Digital Television (DTV) transmitter and receiver based on the Advanced Television System Committee (ATSC) A/53, and a method thereof. The present invention provides 8-VSB DTV transmitter and receiver that can improve reception performance of the receiver by transmitting and double streams formed of normal data and robust data without increasing an average power level, regardless of the ratio of the normal data and robust data, by including an encoding unit for performing 16-state trellis coding on the robust data when a data stream includes robust data, and a method thereof.

WO 2006/004303 A1



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